Q: Fourier transform

$$F(u) = \mathcal{F}\{f(x)\} = \int_{-\infty}^{\infty} f(x) e^{-j2\pi ux} dx$$

$$f(x) = \mathcal{F}^{-1}\{F(u)\} = \int_{-\infty}^{\infty} F(u) e^{j2\pi ux} du$$

$$F(u,v) = \mathcal{F}\{f(x,y)\} = \int_{-\infty}^{\infty}\int_{-\infty}^{\infty} f(x,y) e^{-j2\pi(ux+vy)} dx dy$$

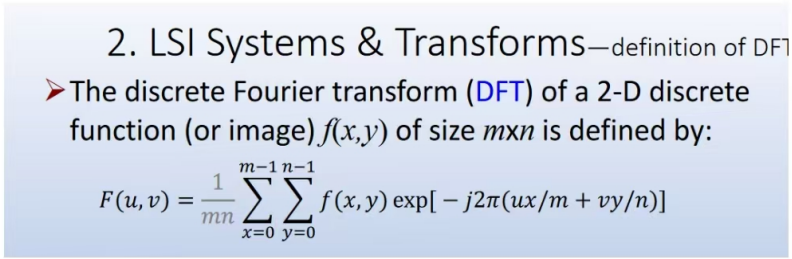
$$f(x,y) = \mathcal{F}^{-1}\{F(u,v)\} = \int_{-\infty}^{\infty}\int_{-\infty}^{\infty} F(u,v) e^{j2\pi(ux+vy)} du dv$$

$$F(u,v) = \frac{1}{mn} \sum_{x=0}^{m-1} \sum_{y=0}^{n-1} f(x,y) e^{-j2\pi\left(\frac{ux}{m} + \frac{vy}{n}\right)}$$

$$f(x,y) = \frac{1}{mn} \sum_{u=0}^{m-1} \sum_{v=0}^{n-1} F(u,v) e^{j2\pi\left(\frac{ux}{m} + \frac{vy}{n}\right)}$$

10:15

Cai Yuxuan



↓ 新邮件

JX

Jiang Xudong (Assoc Prof)

收件人 你

上午8:30

It is not necessary for the forward transform.

Best Regards,
Jiang Xudong
It is not necessary

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Okay, thank you! *Ok, thanks.* *Noted. Tha*

答复